## PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF ELECTION	Assistant Commissioner for Patents			
(DCT D.J. C1 2)	United States Patent and Trademark			
(PCT Rule 61.2)	Office Box PCT			
	Washington, D.C.20231			
	ÉTATS-UNIS D'AMÉRIQUE			
Date of mailing (day/month/year)	in its capacity as elected Office			
18 February 2000 (18.02.00)	in its capacity as elected Office			
International application No.	Applicant's or agent's file reference			
PCT/GB99/02047	PJA/C088195PWO			
International filing date (day/month/year)	Priority date (day/month/year)			
08 July 1999 (08.07.99)	08 July 1998 (08.07.98)			
Applicant				
LLOYD, Christopher, James et al				
The designated Office is hereby notified of its election mac	la.			
	е.			
X in the demand filed with the International Preliminar	y Examining Authority on:			
25 January 20	00 (25.01.00)			
in a notice effecting later election filed with the Inter-	national Bureau on:			
2. The election X was				
] [				
was not				
made before the expiration of 19 months from the priority	date or, where Rule 32 applies, within the time limit under			
Rule 32.2(b).				
The International Bureau of WIPO	Authorized officer			
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1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38			
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**PCT** 

REC'D 13 OCT 2000

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

MH/C0881	r agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International  CTION Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/GB99/02047		International filing date (day/mor		riority date <i>(day/month/year)</i> 8/07/1998				
International Patent Classification (IPC) or national classification and IPC G01N33/542								
Applicant THE VICTORIA UNIVERSITY OF MANCHESTER et al.								
	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This Ri	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
be	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These	annexes consist of a total of	sheets.						
3. This re	port contains indications rela	ting to the following items:						
1	Basis of the report							
11	☐ Priority							
III	☐ Non-establishment of o	pinion with regard to novelty, i	nventive step and	industrial applicability				
IV	☐ Lack of unity of invention	on						
V	V 🛮 Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement							
VI	☐ Certain documents cite	ed						
VII	Certain defects in the in	iternational application						
VIII	Certain observations or	n the international application						
Date of submission of the demand			e of completion of this report					
25/01/2000			11.10.2000					
Name and mailing address of the international preliminary examining authority:			Authorized officer					
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			n. W	Arage State of the				
Fax: +49 89 2399 - 4465			Telephone No. +49 89 2399 2623					



International application No. PCT/GB99/02047

#### I. Basis of the report

1.	res	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in esponse to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):					
	Des	scription, pages:					
	1-4	0	as originally filed				
	Cla	ims, No.:					
	1-3	1	as originally filed				
	Dra	Drawings, sheets:					
1-11		1	as originally filed				
2	The	amondments have	e resulted in the cancellation of:				
۷.	1116	amendments have	resulted in the cancellation of.				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
3.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):					

4. Additional observations, if necessary:



International application No. PCT/GB99/02047

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims 1-29

No:

Claims

Inventive step (IS)

Yes:

Claims 1-29

No:

o: Claims

Industrial applicability (IA)

Yes:

Claims 1-29

Claims

No:

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

#### **SECTION V**

The following documents are referred to in this report: 1.

D1=JP61277060:

D2=WO9627798:

D3=US4421860

The present application concerns a method of determining a characteristic cycle time of a sample which is optically excited from the ground state to an excited state (preferably continuously) and in which the number of active elements and the intensity of the incident radiation is chosen so that individual quanta are distinguishable from each other (in particular so as to permit auto-correlation).

2. CLAIMS 1-28 (methods), 29 (apparatus)

> D1 is considered to represent the closest prior art and discloses a method for determining the quantity (concn) of the antigen in a specimen from a measurement of the relaxation time and a calibration curve. This document is however not detailed enough to disclose clearly the features of determining of a characteristic CYCLE time by IMMEDIATE RE-EXCITATION following relaxation to ground state (instead the relaxation time alone is measured) - there is also no indication that the illumination is continuous which might at least suggest such immediate re-excitation.

> D2 (cited in the application on page 2) and D3 relate to fluorescence correlation spectroscopy which determines the diffusion coefficient of moving fluorescent particles rather than fluorescent lifetimes.

### **SECTION VIII**

Independent method claim 1 (and dependent method claims 2-28) as well as apparatus claim 29 (which comprises analysing means for determining the cycle time resulting from immediate re-excitation) are therefore considered to meet the requirements of novelty and inventive step (Art. 33.2, 3 PCT).